

10/032897

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Term: viral quasi-species

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<u>L1</u>	viral quasi-species	7	<u>L1</u>

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- ☐ 1. 6423516. 22 Mar 96; 23 Jul 02. Process and agent for instabilizing viral quasi-species-distributions avoiding resistance phenomena. Eigen; Manfred, et al. 435/91.2; 435/235.1 435/456 435/6 435/91.33 436/94 536/23.1 536/23.5 536/23.72. C12P019/34 C12P007/34 C12Q001/68 C07H021/04 C07H021/02.
- ☐ 2. 6242187. 10 Aug 99; 05 Jun 01. Compositions and methods for determining anti-viral drug susceptibility and resistance and anti-viral drug screening. Capon; Daniel J., et al. 435/6; 435/320.1 435/369 435/370. C12Q001/68.
- ☐ 3. 5837464. 29 Jan 97; 17 Nov 98. Compositions and methods for determining anti-viral drug susceptibility and resistance and anti-viral drug screening. Capon; Daniel, et al. 435/6; 435/320.1 435/369. C12Q001/68.
- ☐ 4. EP 1233062 A2. 02 Jul 93. 21 Aug 02. Destabilisation of viral quasi-species distributions - avoiding resistance phenomena. EIGEN, MANFRED, et al. C12N015/00; C12N007/00 C12N015/11.
- ☐ 5. WO 9401545 A1. 02 Jul 93. 20 Jan 94. UNSTABILISING VIRAL QUASI-SPECIES DISTRIBUTIONS FOR AVOIDING RESISTANCE PHENOMENA. EIGEN, MANFRED, et al. 435/6 435/235.1 435/FOR.125 536/23.1. C12N015/00; C12N007/00 C12N015/11.
- ☐ 6. WO 200183815 A1 AU 200156362 A. Detecting minority genomes in viral quasi-species, useful for identifying mutants responsible for drug resistance and to individualize therapy. ARIAS ESTEBAN, A, et al. C12Q001/68.
- ☐ 7. DE 4222289 C1 WO 9401545 A1 AU 9345633 A EP 651796 A1 JP 08501926 W US 20020107220 A1 US 6423516 B1 EP 1233062 A2. Destabilisation of viral quasi-species distributions - using defective replication system which has greater nucleotide miscopy rate then viral wild-type replication system useful for treating viral infections. BIEBRICHER, C, et al. A61K031/70 A61K035/76 A61K048/00 C07H021/02 C07H021/04 C12N007/00 C12N007/01 C12N007/04 C12N007/06 C12N015/00 C12N015/09 C12N015/11 C12N015/33 C12P007/34 C12P019/34 C12Q001/68.

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Term	Documents
VIRAL.DWPI,EPAB,JPAB,USPT.	54537
VIRALS.DWPI,EPAB,JPAB,USPT.	312
QUASI-SPECIES.DWPI,EPAB,JPAB,USPT.	51
QUASI-SPECY	0
QUASI-SPECYS	0
(VIRAL ADJ QUASI-SPECIES).USPT,JPAB,EPAB,DWPI.	7
(VIRAL QUASI-SPECIES).USPT,JPAB,EPAB,DWPI.	7

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=> s viral quasi-specie#
L1 37 VIRAL QUASI-SPECIE#

=> s l1 and misincorporat###
L2 0 L1 AND MISINCOPORAT###

=> s l1 and misincorporat###
L3 1 L1 AND MISINCOPORAT###

=> s l3 and antimetabolite#
L4 0 L3 AND ANTIMETABOLITE#

=> s l3 and rate#
L5 1 L3 AND RATE#

=> s l5 and wild
L6 1 L5 AND WILD

=> d l6 1 bib ab kwic

L6 ANSWER 1 OF 1 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
AN 2002:487349 BIOSIS
DN PREV200200487349
TI Process and agent for instabilizing **viral quasi-species**-distributions avoiding resistance phenomena.
AU Eigen, Manfred (1); Schwiendorst, Andreas; Biebricher, Christof; Lindemann, Bjorn; Domingo, Esteban; Holland, John; Henco, Karsten
CS (1) Gottingen Germany
ASSIGNEE: Evotec BioSystems AG, Hamburg, Germany
PI US 6423516 July 23, 2002
SO Official Gazette of the United States Patent and Trademark Office Patents, (July 23, 2002) Vol. 1260, No. 4, pp. No Pagination.
<http://www.uspto.gov/web/menu/patdata.html>. e-file.
ISSN: 0098-1133.
DT Patent
LA English
AB A process for instabilizing **viral quasi-species**-distributions under avoidance of resistance phenomena by replication of the nucleic acids of the viruses present in the quasi-species-distribution by of a defective replication system, a) whereby the defective replication system has a **rate of misincorporation** for nucleotides above the **rate of misincorporation** of the viral wild-type-replication system and, whereby the viruses are replicated by the replication system having the higher **rate of misincorporation** at least as effectively as it is done by the replication system of the **wild-type virus**, b) and/or negative influence of the replication of the

consensus-sequence (nucleic acid sequence of the **wild-type** virus) in relation to other replicatable nucleic acids.

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IT Miscellaneous Descriptors
 defective replication system: nucleotide **misincorporation rate**; resistance phenomena avoidance; **viral quasi-species**-distributions: instabilizing process

=> s l1 and antimetabolite#
 L7 0 L1 AND ANTIMETABOLITE#

=> s l1 and wild
 L8 2 L1 AND WILD

=> s l8 and rate#
 L9 2 L8 AND RATE#

=> s l9 and destabil#####
 L10 0 L9 AND DESTABIL#####

=> d l9 1-2 bib ab kwic

L9 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2002 ACS

AN 1994:290084 CAPLUS

DN 120:290084

TI Method and system for destabilization of **viral quasi-species** population without increasing resistance

IN Eigen, Manfred; Schwienhorst, Andreas; Biebricher, Christof; Lindemann, Bjoern; Domingo, Esteban; Holland, John; Henco, Karsten

PA Diagen Institut fuer Molekularbiologische Diagnostik GmbH, Germany

SO Ger., 18 pp.

CODEN: GWXXAW

DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 4222289	C1	19940105	DE 1992-4222289	19920707
	WO 9401545	A1	19940120	WO 1993-EP1711	19930702
	W:		AU, BB, BG, BR, BY, CA, CZ, FI, HU, JP, KP, KR, KZ, LK, MG, MN, MW, NO, NZ, PL, RO, RU, SD, SK, UA, US, VN		
	RW:		AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG		
	AU 9345633	A1	19940131	AU 1993-45633	19930702
	EP 651796	A1	19950510	EP 1993-915776	19930702
	R:		AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE		
	JP 08501926	T2	19960305	JP 1993-502923	19930702
	EP 1233062	A2	20020821	EP 2002-1327	19930702
	R:		AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE		

	US 6423516	B1	20020723	US 1996-362604	19960322
	US 2002107220	A1	20020808	US 2001-32897	20011025
PRAI	DE 1992-4222289	A	19920707		
	EP 1993-915776	A3	19930702		
	WO 1993-EP1711	A	19930702		
	US 1996-362604	A3	19960322		

AB The title method comprises replication of the nucleic acid of the quasi-species population with an error-prone replication system. The replication system has a nucleotide incorporation error **rate** greater than that of the **wild-type** replication system but viruses with both replication systems replicate equally well; and/or the replication of the consensus sequence (of the **wild-type** virus) is neg. influenced relative to variants thereof.

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L9 ANSWER 2 OF 2 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

AN 2002:487349 BIOSIS

DN PREV200200487349

TI Process and agent for instabilizing **viral quasi-species**-distributions avoiding resistance phenomena.

AU Eigen, Manfred (1); Schwienhorst, Andreas; Biebricher, Christof; Lindemann, Bjorn; Domingo, Esteban; Holland, John; Henco, Karsten

CS (1) Gottingen Germany

ASSIGNEE: Evotec BioSystems AG, Hamburg, Germany

PI US 6423516 July 23, 2002

SO Official Gazette of the United States Patent and Trademark Office Patents, (July 23, 2002) Vol. 1260, No. 4, pp. No Pagination.
<http://www.uspto.gov/web/menu/patdata.html>. e-file.
 ISSN: 0098-1133.

DT Patent

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negative influence of the replication of the consensus-sequence (nucleic acid sequence of the **wild-type** virus) in relation to other replicatable nucleic acids.

IT Miscellaneous Descriptors

defective replication system: nucleotide misincorporation **rate**
; resistance phenomena avoidance; **viral quasi-**
species-distributions: instabilizing process

=>